

U.S. ENVIRONMENTAL PROTECTION AGENCY  
POLLUTION/SITUATION REPORT  
Big River Mine Tailings Site, OU1 -- Area of Response - Removal Polrep



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
Region VII

**Subject:** POLREP #8  
Big River Mine Tailings Site, OU1 -- Area of Response  
07CR  
Park Hills, MO  
Latitude: 37.8625800 Longitude: -90.5087260

**To:** Dave Williams, US EPA

**From:** Janice Kroone, OSC

**Date:** 5/23/2014

**Reporting Period:** May 10 - 23, 2014

## 1. Introduction

### 1.1 Background

<b>Site Number:</b>	07CR	<b>Contract Number:</b>	ERRS:EPS71305
<b>D.O. Number:</b>	ERRS:0036	<b>Action Memo Date:</b>	12/6/2010
<b>Response Authority:</b>	CERCLA	<b>Response Type:</b>	Time-Critical
<b>Response Lead:</b>	EPA	<b>Incident Category:</b>	Removal Action
<b>NPL Status:</b>	NPL	<b>Operable Unit:</b>	01
<b>Mobilization Date:</b>	4/21/2014	<b>Start Date:</b>	4/28/2014
<b>Demob Date:</b>		<b>Completion Date:</b>	
<b>CERCLIS ID:</b>	MOD98112689	<b>RCRIS ID:</b>	
<b>ERNS No.:</b>		<b>State Notification:</b>	
<b>FPN#:</b>		<b>Reimbursable Account #:</b>	

#### 1.1.1 Incident Category

Comprehensive Environmental Response, Compensation and Liability Act of 1980 (CERCLA) incident category: Inactive Production Facility (Mining-Metals [Pb]).

#### 1.1.2 Site Description

##### 1.1.2.1 Location

The 2014 Big River Mine Tailings Site, OU-1 (Site) action consists of excavation at residential properties where lead in soil exceed screening levels of 800 milligrams/kilogram (mg/kg) and children less than 84 months of age reside. The Site is within the boundaries of St. Francois County, Missouri. This response action does not include ongoing actions at other sub-sites (e.g. Lake Timberline sub-site and Iron Mountain Lake sub-site). The primary focus of this action lies within the "Area of Contamination" established in the 2004 Administrative Order on Consent between the EPA and the Doe Run Company.

The Site exists within an area of approximately 436 square miles and includes all of St. Francois County with the exception of the former Mine La Motte tract that extends into St. Francois County's southern border just north of the community of Mine La Motte, Missouri. St. Francois County is the location of a former mining region known as the "Old Lead Belt." The area is still referred to as the "Mineral Area." The population center of the area is located approximately 70 miles south of St. Louis. Seven large areas of mine waste covering an area of approximately 110 square miles are present within the Site. The areas included are the Bonne Terre Mine Tailings Site, the Leadwood Mine Tailings Site, the Elvins Mine Tailings Site, the Federal Mine Tailings Site, the Desloge Mine Tailings Site, the National Mine Tailings Site and the Doe Run Mine Tailings Site. Migration of lead-contaminated mine waste from these large tailings piles through human and environmental mechanisms has occurred. This response is not limited to these mine waste areas.

#### 1.1.2.2 Description of Threat

See POLREP #1 (Initial POLREP).

#### 1.1.3 Preliminary Removal Assessment/Removal Site Inspection Results

See POLREP #1 (Initial POLREP).

## 2. Current Activities

### 2.1 Operations Section

#### 2.1.1 Narrative

The Site consists of residential properties in St. Francois County and within the "Area of Contamination" established in the 2004 Administrative Order on Consent between the EPA and the Doe Run Company, Missouri. The EPA discovered surface soils at the Site to have elevated concentrations of lead.

#### 2.1.2 Response Actions to Date

Site walks were conducted at 14 properties with the EPA On Scene Coordinator, resident, START and ERRs Contractor during the week of April 21, 2014.

Excavations began on April 29, 2014, at residential properties on the Site. The excavated soil is hauled to the Bonne Terre East Repository. As of May 23, 2014, the following properties have been excavated:

Property ID	Date Excavation Completed	Cubic Yards Excavated
9001	05/06/2014	543
9313	05/02/2014	402
9316	05/08/2014	210
9288	05/12/2014	298
9481	05/12/2014	140
2689	05/19/2014	487
9120	05/16/2014	160
9331	05/20/2014	265
9006	05/22/2014	348
9401	05/22/2014	280

#### 2.1.3 Enforcement Activities, Identity of Potentially Responsible Parties (PRPs)

See Polrep #6.

#### 2.1.4 Progress Metrics

<i><b>Waste Stream</b></i>	<i><b>Medium</b></i>	<i><b>Quantity</b></i>	<i><b>Manifest #</b></i>	<i><b>Treatment</b></i>	<i><b>Disposal</b></i>
Lead-Contaminated					Bonne

Soil (ERRS contract; excavations conducted during 2014)	Solid	3,133 yd	N/A	N/A	Terre East (Tailings Pile) Repository
Lead-Contaminated Soil (ERRS contract; excavations conducted prior to 2014)	Solid	128,706yd <sup>3</sup>	N/A	N/A	Desloge Tailings Pile
Lead-Contaminated Soil (Site-specific contract; excavations conducted prior to 2014)	Solid	42,531 yd <sup>3</sup>	N/A	N/A	Bonne Terre East Tailings Pile
Total		128,706 yd <sup>3</sup>			

## 2.2 Planning Section

### 2.2.1 Anticipated Activities

Continue to obtain access agreements, conduct site screening on properties, conduct site walks, excavate, backfill and restore residential properties which meet the excavation criteria for this action.

#### 2.2.1.1 Planned Response Activities

Excavate, backfill, sod and hydroseed properties.

#### 2.2.1.2 Next Steps

See 2.2.1 above.

### 2.2.2 Issues

## 2.3 Logistics Section

All logistical issues are being addressed by EPA and EPA contractors.

## 2.4 Finance Section

### 2.4.1 Narrative

The total EPA costs for this removal action are based on full cost accounting practices.

### Estimated Costs \*

	Budgeted	Total To Date	Remaining	% Remaining
<b>Extramural Costs</b>				
2014 ERRS - Cleanup Contractor	\$1,200,000.00	\$311,491.13	\$888,508.87	74.04%
START (RPM tracking these costs)	\$273,395.00	\$247,388.00	\$26,007.00	9.51%

<b>Intramural Costs</b>				
2014 USEPA - Direct	\$111,000.00	\$5,500.00	\$105,500.00	95.05%
2014USEPA - InDirect	\$330,000.00	\$8,000.00	\$322,000.00	97.58%
<b>Total Site Costs</b>	\$1,914,395.00	\$572,379.13	\$1,342,015.87	70.10%

\* The above accounting of expenditures is an estimate based on figures known to the OSC at the time this report was written. The OSC does not necessarily receive specific figures on final payments made to any contractor(s). Other financial data which the OSC must rely upon may not be entirely up-to-date. The cost accounting provided in this report does not necessarily represent an exact monetary figure which the government may include in any claim for cost recovery.

## 2.5 Other Command Staff

### 2.5.1 Safety Officer

No significant safety issues reported during this operational period.

### 2.6 Liaison Officer

### 2.7 Information Officer

#### 2.7.1 Public Information Officer

At this time there is no PIO assigned to this site.

#### 2.7.2 Community Involvement Coordinator

At this time there is no CIC assigned to this site. See Polrep #6 for information on previous Public Availability Sessions and other details on community outreach.

## 3. Participating Entities

### 3.1 Unified Command

The limited scope of the response does not warrant a full Incident Management Team (IMT) or Unified Command. Operations, safety, logistics, planning and finance functions are primarily being handled by contractor staff.

### 3.2 Cooperating Agencies

Cooperating and assisting agencies include:

City of Park Hills,  
City of Leadwood,  
City of Bonne Terre,  
City of Doe Run,  
City of Desloge,  
Missouri Department of Natural Resources,  
Missouri Department of Health and Senior Services

## 4. Personnel On Site

EPA  
ERRS  
START

## 5. Definition of Terms

AOC	Area of Contamination / Administrative Order on Consent
AOR	Area of Response
ATSDR	Agency for Toxic Substances and Disease Registry
CAMU	Corrective Action Management Unit
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
EPA	Environmental Protection Agency
ERRS	Emergency & Rapid Response Services Contract
MDHSS	Missouri Department of Health and Senior Services
MDNR	Missouri Department of Natural Resources
mg/L	milligrams per Liter
mg/kg	milligrams per kilogram
NCP	National Contingency Plan
ng/m3	nanograms per cubic meter
NPL	National Priorities List
OSC	On-Scene Coordinator
OSHA	Occupational Safety and Health Administration
OU	Operable Unit
Polrep	Pollution Report
PPE	Personal Protective Equipment
PPM	Part Per Million
PRP	Potentially Responsible Party
RCRA	Resource Conservation and Recovery Act
RPM	Remedial Project Manager
Sitrep	Situation Report
START	Superfund Technical Assessment and Response Team
SS	Site Specific
SU	Sample Unit
TCLP	Toxicity Characteristic Leaching Procedure
XRF	X-Ray Fluorescent Spectrometer
yd3	Cubic Yard

## 6. Additional sources of information

### 6.1 Internet location of additional information/report

For additional information, please refer to <http://www.epaosc.org/BRAOR>

### 6.2 Reporting Schedule

The Pollution Report (PolRep) serves as the OSC's record of the response actions, notifications and decisions made to support the response action. PolReps will be completed and posted as conditions warrant and at the conclusion of site activities.

## 7. Situational Reference Materials

Please refer to the documents section of <http://www.epaosc.org/BRAOR> for maps, data, diagrams, etc.